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lysin	and	(inhibit\$			***************************************	1	Refine Search
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L9: Entry 1 of 3 File: USPT Dec 17, 2002

DOCUMENT-IDENTIFIER: US 6495604 B1

TITLE: Cycloalkene derivatives, process for producing the same, and use

Brief Summary Text (5):

cNOS occurs in the vascular endothelial cells and neurons, and is calcium calmodulin dependent and activated by various receptor stimulations to produce a small amount of NO, whereby being considered to contribute to the physiological regulatory effects described above. On the other hand, iNOS is induced in macrophages and a neutrophile by various cytokines and bacterial lipopolysaccharides (LPS) to produce a large amount of NO continuously, which makes it to be believed to have not only the pharmacological effects described above but also cell- and tissue-damaging effects at the site of the production [Immunol. Today, Vol.13, p.157-160 (1992)]. Cells known to express iNOS other than those described above may, for example, be hepatocytes, Kupffer cells, glia cells, vascular smooth muscle cells, vascular endothelial cells, myoendocardium, myocardial cells, mesangial cells, chondrocytes, synovial cells, pancreatic .beta. cells, osteoclasts and the like [FASEB J., Vol.6, p.3051-3064 (1992), Arch. Surg., Vol.128, p.396-401 (1993), J. Biol. Chem., Vol.44, p.27580-27588 (1994), J. Cell. Biochem., Vol.57, p.399-408(1995)], and NO produced in these cells and tissues is known to be involved in various diseases and pathologies. Accordingly, a substance which inhibits the NO production by iNOSinducible cells is considered to be effective as a prophylactic and therapeutic agent against various diseases such as arteriosclerosis, myocarditis,, cardiomyopathy, cerebral ischemic failure, Alzheimer's disease, multiple sclerosis, septic shock, chronic rheumatoid arthritis, osteoarthritis, gastric ulcer, duodenal ulcer, ulcerative colitis, diabetes, glomerular nephritis, osteoporosis, pneumonia, hepatitis, psoriasis, graft rejection and pain. From this point of view, several iNOS-inhibiting compounds such as L-arginine analogue [Pharmacol. Rev. Vol. 43, p.109-142 (1991)], aminoguanidine [Br. J. Pharmacol., Vol.110, p.963-968 (1993)] and s S-ethylisothiourea [J.Biol.Chem., Vol.43, 26669-26676 (1994)]/ have been reported so far. However, each of these compounds is not satisfactory in terms of it's activity, and has a problematically undesirable inhibitory effect not only on iNOS but also on cNOS which is physiologically active.

ANSWER 1 OF 65 REGISTRY COPYRIGHT 2001 ACS L3 321849-70-1 REGISTRY RN Lysine, 2-[[[[2-amino-6-[(1-iminoethyl)amino]-1-CN oxohexyl]oxy]acetyl]amino]methyl]-N6-(2-fluoro-1-iminoethyl)-, tetrakis(4-methylbenzenesulfonate) (9CI) (CA INDEX NAME) STEREOSEARCH FS C19 H36 F N7 O5 . 4 C7 H8 O3 S MF SR CA LC STN Files: CA, CAPLUS CM 1 321849-69-8 CRN C19 H36 F N7 O5 CMF

Absolute stereochemistry.

FCH₂ NH₂
$$(CH_2)_4$$
 $(CH_2)_4$ $(CH_2)_$

CM 2

CRN 104-15-4 CMF C7 H8 O3 S

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 2 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 321849-69-8 REGISTRY

CN .beta.-Alanine, N6-(1-iminoethyl)-L-lysylhydroxyacetyl-2-amino-2-[4-[(2-fluoro-1-iminoethyl)amino]butyl]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C19 H36 F N7 O5

CI COM

SR CA

FCH₂ NH
$$(CH_2)_4$$
 $(CH_2)_4$ $(CH_2)_4$

L3 ANSWER 3 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 321849-53-0 REGISTRY

CN 13-0xa-3,10,14,16-tetraazadocos-14-en-22-oic acid, 8,21-diamino-2-imino-15-methyl-9,12-dioxo-, tetrahydrochloride (9CI) (CA INDEX NAME)

MF C18 H35 N7 O5 . 4 Cl H

SR CA

LC STN Files: CA, CAPLUS

● 4 HCl

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 4 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 288095-98-7 REGISTRY

CN L-Lysine, N6-[1-(hydroxyamino)ethylidene]-, monohydrochloride (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C8 H17 N3 O3 . C1 H

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

HC1

- 1 REFERENCES IN FILE CA (1967 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

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L3 ANSWER 5 OF 65 REGISTRY COPYRIGHT 2001 ACS
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- RN 287409-90-9 REGISTRY
- CN Lysine, 2-[[(aminoacetyl)amino]methyl]-N6-(1-iminoethyl)-, trihydrochloride (9CI) (CA INDEX NAME)
- MF C11 H23 N5 O3 . 3 C1 H
- SR CA
- LC STN Files: CA, CAPLUS

●3 HCl

- 1 REFERENCES IN FILE CA (1967 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

CHO WHZ

- L3 ANSWER 6 OF 65 REGISTRY COPYRIGHT 2001 ACS
- RN 243671-01-4 REGISTRY
- CN L-Lysine, N6-(2-chloro-1-iminoethyl)- (9CI) (CA INDEX NAME)
- FS STEREOSEARCH
- MF C8 H16 C1 N3 O2
- CI COM
- SR CA
- LC STN Files: CA, CAPLUS

Absolute stereochemistry.

- 1 REFERENCES IN FILE CA (1967 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)
- L3 ANSWER 7 OF 65 REGISTRY COPYRIGHT 2001 ACS
- RN 243670-91-9 REGISTRY
- CN L-Lysine, N6-(2-fluoro-1-iminoethyl)- (9CI) (CA INDEX NAME)
- FS STEREOSEARCH
- MF C8 H16 F N3 O2
- CI COM
- SR CA
- LC STN Files: CA, CAPLUS

L3 ANSWER 8 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 243670-90-8 REGISTRY

CN L-Lysine, N6-(2-chloro-2,2-difluoro-1-iminoethyl)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C8 H14 C1 F2 N3 O2

CI COM

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

$$\begin{array}{c|c}
F & C1 & MH2 \\
\hline
H & (CH2) 4 & S & CO_2H
\end{array}$$

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

- L3 ANSWER 9 OF 65 REGISTRY COPYRIGHT 2001 ACS
- RN 243670-86-2 REGISTRY
- CN Lysine, 5-fluoro-N6-(1-iminoethyl)- (9CI) (CA INDEX NAME)
- FS 3D CONCORD
- MF C8 H16 F N3 O2
- CI COM
- SR CA
- LC STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

- L3 ANSWER 10 OF 65 REGISTRY COPYRIGHT 2001 ACS
- RN 243670-83-9 REGISTRY
- CN Lysine, N6-(2-fluoro-1-iminoethyl)-4-methylene- (9CI) (CA INDEX NAME)
- FS 3D CONCORD
- MF C9 H16 F N3 O2
- CI COM
- SR CA
- LC STN Files: CA, CAPLUS

- L3 ANSWER 11 OF 65 REGISTRY COPYRIGHT 2001 ACS
- RN 243670-82-8 REGISTRY
- CN Lysine, N6-(2-fluoro-1-iminoethyl)-5-methyl- (9CI) (CA INDEX NAME)
- FS 3D CONCORD
- MF C9 H18 F N3 O2
- CI COM
- SR CA
- LC STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

- L3 ANSWER 12 OF 65 REGISTRY COPYRIGHT 2001 ACS
- RN 243670-80-6 REGISTRY
- CN Lysine, N6-(2-fluoro-1-iminoethyl)-5-methylene- (9CI) (CA INDEX NAME)
- FS 3D CONCORD
- MF C9 H16 F N3 O2
- CI COM
- SR CA
- LC STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

- L3 ANSWER 13 OF 65 REGISTRY COPYRIGHT 2001 ACS
- RN 243670-76-0 REGISTRY
- CN L-Lysine, N6-(2,2-difluoro-1-iminoethyl)- (9CI) (CA INDEX NAME)
- FS STEREOSEARCH
- MF C8 H15 F2 N3 O2
- CI COM
- SR CA
- LC STN Files: CA, CAPLUS

L3 ANSWER 14 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 243670-75-9 REGISTRY

CN L-Lysine, N6-(2,2,2-trifluoro-1-iminoethyl)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C8 H14 F3 N3 O2

CI COM

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 15 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 243670-74-8 REGISTRY

CN L-Lysine, N6-(2,2,2-trichloro-1-iminoethyl)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C8 H14 C13 N3 O2

CI COM

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 16 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 243670-73-7 REGISTRY

CN L-Lysine, 5,5-difluoro-N6-(1-iminoethyl)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C8 H15 F2 N3 O2

CI COM

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 17 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 243670-72-6 REGISTRY

CN L-Lysine, 4,4-difluoro-N6-(1-iminoethyl)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C8 H15 F2 N3 O2

CI COM

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 18 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 243670-70-4 REGISTRY

CN L-Lysine, N6-(2-chloro-1-iminoethyl)-, dihydrochloride (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C8 H16 Cl N3 O2 . 2 Cl H

SR CA

LC STN Files: CA, CAPLUS

CRN (243671-01-4)

L3 ANSWER 19 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 243670-59-9 REGISTRY

CN L-Lysine, N6-(2-fluoro-1-iminoethyl)-, dihydrochloride (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C8 H16 F N3 O2 . 2 Cl H

SR CA

LC STN Files: CA, CAPLUS

CRN (243670-91-9)

Absolute stereochemistry.

●2 HCl

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 20 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 243670-58-8 REGISTRY

CN L-Lysine, N6-(2-chloro-2,2-difluoro-1-iminoethyl)-, dihydrochloride (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C8 H14 C1 F2 N3 O2 . 2 C1 H

SR CA

LC STN Files: CA, CAPLUS

CRN (243670-90-8)

Absolute stereochemistry.

●2 HC1

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 21 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 243670-54-4 REGISTRY

CN Lysine, 5-fluoro-N6-(1-iminoethyl)-, dihydrochloride (9CI) (CA INDEX NAME)

MF $C8\ H16\ F\ N3\ O2\ .\ 2\ C1\ H$

CA SR

STN Files: CA, CAPLUS LC

(243670-86-2) CRN

● 2 HCl

- 1 REFERENCES IN FILE CA (1967 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)
- ANSWER 22 OF 65 REGISTRY COPYRIGHT 2001 ACS L3

243670-51-1 REGISTRY RN

Lysine, N6-(2-fluoro-1-iminoethyl)-4-methylene-, dihydrochloride (9CI) CN (CA INDEX NAME)

C9 H16 F N3 O2 . 2 Cl H MF

SR

LCSTN Files: CA, CAPLUS

(243670-83-9) CRN

●2 HC1

- 1 REFERENCES IN FILE CA (1967 TO DATE) 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)
- ANSWER 23 OF 65 REGISTRY COPYRIGHT 2001 ACS 243670-50-0 REGISTRY L3

RN

CN Lysine, N6-(2-fluoro-1-iminoethyl)-5-methyl-, dihydrochloride (9CI) (CA INDEX NAME)

MFC9 H18 F N3 O2 . 2 Cl H

SR

LCSTN Files: CA, CAPLUS

CRN (243670-82-8)

2 HCl

- 1 REFERENCES IN FILE CA (1967 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 24 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 243670-48-6 REGISTRY

CN Lysine, N6-(2-fluoro-1-iminoethyl)-5-methylene-, dihydrochloride (9CI) (CA INDEX NAME)

MF C9 H16 F N3 O2 . 2 Cl H

SR CA

LC STN Files: CA, CAPLUS

CRN (243670-80-6)

●2 HC1

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 25 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 243670-44-2 REGISTRY

CN L-Lysine, N6-(2,2-difluoro-1-iminoethyl)-, dihydrochloride (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C8 H15 F2 N3 O2 . 2 C1 H

SR CA

LC STN Files: CA, CAPLUS

CRN (243670-76-0)

Absolute stereochemistry.

•2 HCl

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 26 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 243670-43-1 REGISTRY

CN L-Lysine, N6-(2,2,2-trifluoro-1-iminoethyl)-, dihydrochloride (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C8 H14 F3 N3 O2 . 2 Cl H

SR CA

LC STN Files: CA, CAPLUS

CRN (243670-75-9)

●2 HC1

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 27 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 243670-42-0 REGISTRY

CN L-Lysine, N6-(2,2,2-trichloro-1-iminoethyl)-, dihydrochloride (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C8 H14 Cl3 N3 O2 . 2 Cl H

SR CA

LC STN Files: CA, CAPLUS

CRN (243670-74-8)

Absolute stereochemistry.

•2 HCl

1 REFERENCES IN FILE CA (1967 TO DATE) 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 28 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 243670-41-9 REGISTRY

CN L-Lysine, 5,5-difluoro-N6-(1-iminoethyl)-, dihydrochloride (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C8 H15 F2 N3 O2 . 2 Cl H

SR CA

LC STN Files: CA, CAPLUS

CRN (243670-73-7)

Me
$$\stackrel{\text{NH}}{\underset{\text{H}}{\bigvee}}$$
 $\stackrel{\text{NH}}{\underset{\text{F}}{\bigvee}}$ $\stackrel{\text{NH}}{\underset{\text{CO}_2\text{H}}{\bigvee}}$

●2 HC1

1 REFERENCES IN FILE CA (1967 TO DATE) 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 29 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 243670-40-8 REGISTRY

CN L-Lysine, 4,4-difluoro-N6-(1-iminoethyl)-, dihydrochloride (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C8 H15 F2 N3 O2 . 2 Cl H

SR CA

LC STN Files: CA, CAPLUS

CRN (243670-72-6)

Absolute stereochemistry.

●2 HCl

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 30 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 213126-77-3 REGISTRY

CN D-Lysine, N6-(1-imino-2-phenylethyl)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C14 H21 N3 O2

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

Ph
$$(CH_2)_4$$
 R CO_2H

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 31 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 213126-76-2 REGISTRY

CN L-Lysine, N6-(1-imino-3-phenyl-2-propenyl)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C15 H21 N3 O2

SR CA

40

LC STN Files: CA, CAPLUS

Absolute stereochemistry. Double bond geometry unknown.

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 32 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 213126-75-1 REGISTRY

CN L-Lysine, N6-(1-imino-4-phenylbutyl)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C16 H25 N3 O2

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

$$HO_2C$$
 S
 (CH_2)
 4
 NH
 (CH_2)
 3
 Ph

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 33 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 213126-74-0 REGISTRY

CN L-Lysine, N6-(1-imino-3-phenylpropyl)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C15 H23 N3 O2

SR CA

LC STN Files: CA, CAPLUS

L3 ANSWER 34 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 213126-72-8 REGISTRY

CN L-Lysine, N6-(1-imino-2-phenylethyl)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C14 H21 N3 O2

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

Ph
$$(CH_2)_4$$
 S CO_2H

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 35 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 213126-68-2 REGISTRY

CN L-Lysine, N6-(1-imino-2-methylpropyl)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C10 H21 N3 O2

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

$$HO_2C$$
 S
 $(CH_2)_4$
 NH
 $Pr-i$
 NH

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 36 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 202519-74-2 REGISTRY

CN L-Cysteinamide, N-(1-oxotetradecyl)glycyl-L-seryl-L-seryl-L-lysyl-L-seryl-L-seryl-L-lysyl-L

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C99 H182 N28 O26 S2

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

PAGE 1-B

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

ANSWER 37 OF 65 REGISTRY COPYRIGHT 2001 ACS L3

196491-09-5 REGISTRY RN

L-Lysine, N6-[1-[(methylthio)amino]ethylidene]-, dihydrochloride (9CI) CN (CA INDEX NAME)

FS STEREOSEARCH

C9 H19 N3 O2 S . 2 Cl H MF

SR CA

CA, CAPLUS, USPATFULL LC STN Files:

Absolute stereochemistry.

●2 HCl

3 REFERENCES IN FILE CA (1967 TO DATE) 3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

ANSWER 38 OF 65 REGISTRY COPYRIGHT 2001 ACS 196490-88-7 REGISTRY L3

RN

L-Lysine, N6-[1-[(phenylthio)amino]ethylidene]-, dihydrochloride (9CI) CN (CA INDEX NAME)

FS STEREOSEARCH

C14 H21 N3 O2 S . 2 Cl H MF

SR CA

STN Files: CA, CAPLUS, USPATFULL LC

Absolute stereochemistry.

●2 HC1

3 REFERENCES IN FILE CA (1967 TO DATE)

3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

ANSWER 39 OF 65 REGISTRY COPYRIGHT 2001 ACS L3

196490-81-0 REGISTRY RN

L-Lysine, N6-[1-(phenoxyamino)ethylidene]-, dihydrochloride (9CI) (CA CN INDEX NAME)

STEREOSEARCH FS

C14 H21 N3 O3 . 2 Cl H ΜF

SR

STN Files: CA, CAPLUS, USPATFULL LC

Absolute stereochemistry.

$$HO_2C$$
 S (CH_2) 4 N Me N OPh

●2 HCl

3 REFERENCES IN FILE CA (1967 TO DATE)

3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

ANSWER 40 OF 65 REGISTRY COPYRIGHT 2001 ACS 196490-80-9 REGISTRY L3

RN

L-Lysine, N6-[1-(methoxyamino)ethylidene]-, dihydrochloride (9CI) (CA CNINDEX NAME)

FS STEREOSEARCH

C9 H19 N3 O3 . 2 Cl H MF

SR

STN Files: CA, CAPLUS, USPATFULL LC

$$^{\mathrm{NH}_2}$$
 $^{\mathrm{HO}_2\mathrm{C}}$
 $^{\mathrm{S}}$
 $^{\mathrm{(CH}_2)}$
 $^{\mathrm{4}}$
 $^{\mathrm{N}}$
 $^{\mathrm{Me}}$
 $^{\mathrm{OMe}}$

●2 HC1

3 REFERENCES IN FILE CA (1967 TO DATE) 3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

ANSWER 41 OF 65 REGISTRY COPYRIGHT 2001 ACS L3

196490-79-6 REGISTRY RN

L-Lysine, N6-[1-[(benzoyloxy)amino]ethylidene]-, dihydrochloride (9CI) CN (CA INDEX NAME)

STEREOSEARCH FS

C15 H21 N3 O4 . 2 Cl H MF

SR

STN Files: CA, CAPLUS, USPATFULL LC

Absolute stereochemistry.

●2 HC1

3 REFERENCES IN FILE CA (1967 TO DATE) 3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

ANSWER 42 OF 65 REGISTRY COPYRIGHT 2001 ACS 196490-78-5 REGISTRY L3

RN

L-Lysine, N6-[1-[(acetyloxy)amino]ethylidene]-, dihydrochloride (9CI) (CA CN INDEX NAME)

FS STEREOSEARCH

C10 H19 N3 O4 . 2 Cl H MF

SR

CA, CAPLUS, USPATFULL LC STN Files:

●2 HC1

3 REFERENCES IN FILE CA (1967 TO DATE) 3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 43 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 196490-77-4 REGISTRY

CN 4-Oxa-2-thia-5,7-diazatridec-5-en-13-oic acid, 12-amino-6-methyl-3-oxo-, dihydrochloride, (12S)- (9CI) (CA INDEX NAME)

and the second

OTHER CA INDEX NAMES:

CN 4-0xa-2-thia-5,7-diazatridec-5-en-13-oic acid, 12-amino-6-methyl-3-oxo-, dihydrochloride, (S)-

FS STEREOSEARCH

MF C10 H19 N3 O4 S . 2 Cl H

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

●2 HC1

3 REFERENCES IN FILE CA (1967 TO DATE)

3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 44 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 196490-76-3 REGISTRY

CN 4-Oxa-2,5,7-triazatridec-5-en-13-oic acid, 12-amino-6-methyl-3-oxo-, dihydrochloride, (12S)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 4-0xa-2,5,7-triazatridec-5-en-13-oic acid, 12-amino-6-methyl-3-oxo-, dihydrochloride, (S)-

FS STEREOSEARCH

MF C10 H20 N4 O4 . 2 Cl H

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

●2 HCl

- 3 REFERENCES IN FILE CA (1967 TO DATE)
- 3 REFERENCES IN FILE CAPLUS (1967 TO DATE)
- L3 ANSWER 45 OF 65 REGISTRY COPYRIGHT 2001 ACS
- RN 196490-75-2 REGISTRY
- CN 2,4-Dioxa-5,7-diazatridec-5-en-13-oic acid, 12-amino-6-methyl-3-oxo-, dihydrochloride, (12S)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

- CN 2,4-Dioxa-5,7-diazatridec-5-en-13-oic acid, 12-amino-6-methyl-3-oxo-, dihydrochloride, (S)-
- FS STEREOSEARCH
- MF C10 H19 N3 O5 . 2 Cl H
- SR CA
- LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

●2 HCl

- 3 REFERENCES IN FILE CA (1967 TO DATE)
- 3 REFERENCES IN FILE CAPLUS (1967 TO DATE)
- L3 ANSWER 46 OF 65 REGISTRY COPYRIGHT 2001 ACS
- RN 196490-48-9 REGISTRY
- FS STEREOSEARCH
- MF C8 H14 F3 N3 O3 . 2 Cl H
- SR CA
- LC STN Files: CA, CAPLUS, USPATFULL

●2 HCl

3 REFERENCES IN FILE CA (1967 TO DATE)

3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 47 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 196490-45-6 REGISTRY

CN Lysine, N6-[1-(hydroxyamino)ethylidene]-2-(hydroxymethyl)-,

dihydrochloride (9CI) (CA INDEX NAME)

MF C9 H19 N3 O4 . 2 Cl H

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

●2 HCl

3 REFERENCES IN FILE CA (1967 TO DATE)

3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 48 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 196490-39-8 REGISTRY

CN Lysine, N6-[1-(hydroxyamino)ethylidene]-2-methyl-, dihydrochloride (9CI) (CA INDEX NAME)

MF C9 H19 N3 O3 . 2 Cl H

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

2 HCl

3 REFERENCES IN FILE CA (1967 TO DATE)

3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 49 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 196490-33-2 REGISTRY

CN L-Lysine, N6-[1-(hydroxyamino)ethylidene]-, dihydrochloride (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C8 H17 N3 O3 . 2 Cl H

SR CA

LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

Absolute stereochemistry.

●2 HC1

5 REFERENCES IN FILE CA (1967 TO DATE)

5 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 50 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 187883-79-0 REGISTRY

CN L-Lysine, N6-(1-iminobutyl)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C10 H21 N3 O2

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

Absolute stereochemistry.

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 51 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 183180-63-4 REGISTRY

CN D-Lysine, N6-(1-iminoethyl)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C8 H17 N3 O2

CI COM

SR CA

LC STN Files: CA, CAPLUS

FS

MF

SR LC STEREOSEARCH

CRN (183180-63-4)

C8 H17 N3 O2 . 2 Cl H

STN Files: CA, CAPLUS, CHEMCATS

```
NH<sub>2</sub>
               2 REFERENCES IN FILE CA (1967 TO DATE)
                2 REFERENCES IN FILE CAPLUS (1967 TO DATE)
L3
     ANSWER 52 OF 65 REGISTRY COPYRIGHT 2001 ACS
     172835-09-5 REGISTRY
RN
CN-Lysine, 2-(hydroxymethyl)-N6-(1-iminoethyl)- (9CI) (CA INDEX NAME) OTHER CA INDEX NAMES:
     DL-Lysine, 2-(hydroxymethyl)-N6-(1-iminoethyl)-
CN
FS
     3D CONCORD
MF
     C9 H19 N3 O3
SR
     CA
     STN Files: CA, CAPLUS
LC
        CO<sub>2</sub>H
                       NH
HO-CH_2-C-(CH_2)_4-NH-C-Me
        NH<sub>2</sub>
               1 REFERENCES IN FILE CA (1967 TO DATE)
                1 REFERENCES IN FILE CAPLUS (1967 TO DATE)
     ANSWER 53 OF 65 REGISTRY COPYRIGHT 2001 ACS
L3
     172835-07-3 REGISTRY
RN
     Lysine, N6-(1-iminoethyl)-2-methyl- (9CI) (CA INDEX NAME)
CN
OTHER-CA-INDEX NAMES:
     DL-Lysine, N6-(1-iminoethyl)-2-methyl-
CN
FS
     3D CONCORD
MF
     C9 H19 N3 O2
SR
     CA
LC
     STN Files: CA, CAPLUS
      NH2
                     NH
HO_2C-C-(CH_2)_4-NH-C-Me
     Мe
         1. REFERENCES IN FILE CA (1967 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1967 TO DATE)
L3
     ANSWER 54 OF 65 REGISTRY COPYRIGHT 2001 ACS
     162381-09-1 REGISTRY
RN
    D-Lysine, N6-(1-iminoethyl)-, dihydrochloride (9CI) (CA INDEX NAME)
CN.
```

Absolute stereochemistry.

7

●2 HCl

```
1 REFERENCES IN FILE CA (1967 TO DATE)
               TREFERENCES IN FILE CAPLUS (1967 TO DATE)
     ANSWER 55 OF 65 REGISTRY COPYRIGHT 2.001 ACS
L3
     159190-45-1 REGISTRY
RN
     L-Lysine, N6-(1-iminoethyl)-, dihydrochloride (9CI) (CA INDEX NAME)
CN
FS
     STEREOSEARCH
    -C8_H17-N3-02 . 2 C1 H
MF-
SR-
    -CA-
LC
     STN Files: CA, CAPLUS, CHEMCATS, CSCHEM, TOXLIT
CRN (53774-63-3)
```

Absolute stereochemistry.

●2 HCl

- 4 REFERENCES IN FILE CA (1967 TO DATE)
 4 REFERENCES IN FILE CAPLUS (1967 TO DATE)
- L3 ANSWER 56 OF 65 REGISTRY COPYRIGHT 2001 ACS
- RN 157660-68-9 REGISTRY
- CN L-Lysine, N6-(5-carboxy-1-iminopentyl)- (9CI) (CA INDEX NAME)
- FS STEREOSEARCH
- MF C12 H23 N3 O4
- CI COM
- SR CA
- LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

```
1 REFERENCES IN FILE CA (1967 TO DATE)
              1 REFERENCES IN FILE CAPLUS (1967 TO DATE)
   ANSWER 57 OF 65 REGISTRY COPYRIGHT 2001 ACS
RN
    150403-92-2 REGISTRY
    L-Lysine, N6-(1-iminopropyl)-, monohydrochloride (9CI) (CA INDEX NAME)
CN
    STEREOSEARCH
FS
    C9 H19 N3 O2 . C1 H
MP
SR
    CA
    STN Files: CA, CAPLUS, USPATFULL
LC
Absolute stereochemistry.
```

● HCl

1 REFERENCES IN FILE CA (1967 TO DATE) 1 REFERENCES IN FILE CAPLUS (1967 TO DATE) L3 ANSWER 58 OF 65 REGISTRY COPYRIGHT 2001 ACS 150403-89-7 REGISTRY RNL-Lysine, N6-(1-iminoethyl)-, monohydrochloride (9CI) (CA INDEX NAME) CN FS STEREOSEARCH C8 H17 N3 O2 . C1 H MF SR-LC CA, CAPLUS, CHEMCATS, CSCHEM, TOXLIT, USPATFULL STN Files: CRN (53774-63-3)

Absolute stereochemistry.

● HCl

```
3 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 59 OF 65 REGISTRY COPYRIGHT 2001 ACS
RN 92085-25-1 REGISTRY
CN Octanoic acid, 8-[(5-amino-5-carboxypentyl)amino]-8-imino-, (S)- (9CI)
(CA INDEX NAME)
FS STEREOSEARCH
MF C14 H27 N3 O4
LC STN Files: CA, CAPLUS
```

Absolute stereochemistry.

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 60 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 92085-24-0 REGISTRY

CN L-Lysine, N6, N6'-(1,8-diimino-1,8-octanediyl)bis- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C20 H40 N6 O4

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

$NH2$
 $^{HO}_{2C}$
 S
 $^{(CH_2)}_{4}$
 H
 $^{(CH_2)}_{6}$
 H
 $^{(CH_2)}_{4}$
 S
 $^{CO}_{2H}$

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 61 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 76260-95-2 REGISTRY

CN L-Lysine, N6-(5-carboxy-1-iminopentyl)-, monohydrochloride (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C12 H23 N3 O4 . C1 H

LC STN Files: CA, CAPLUS

CRN (157660-68-9)

Absolute stereochemistry.

HCl

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 62 OF 65 REGISTRY COPYRIGHT 2001 ACS

```
RN 76260-94-1 REGISTRY
```

CN L-Lysine, N6,N6'-(1,6-diimino-1,6-hexanediyl)bis-, dihydrochloride (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C18 H36 N6 O4 . 2 Cl H

LC STN Files: CA, CAPLUS

CRN (17465-88-2)

Absolute stereochemistry.

$NH2$
 $^{HO}_{2C}$
 S
 $^{(CH_2)}_{4}$
 H
 NH2
 $^{(CH_2)}_{4}$
 H
 NH2
 $^{(CH_2)}_{4}$
 S
 $^{CO}_{2H}$

●2 HCl

1 REFERENCES IN FILE CA (1967 TO DATE) -1—REFERENCES—IN_FILE_CAPLUS (1967 TO DATE)

L3 ANSWER 63 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 53774-63-3 REGISTRY

CN L-Lysine, N6-(1-iminoethyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN .epsilon.-Acetimidyllysine

FS STEREOSEARCH

MF C8 H17 N3 O2

CI COM

LC STN Files: ANABSTR, BIOSIS, BIOTECHNO, CA, CAPLUS, CHEMCATS, EMBASE, TOXLIT, USPATFULL

Absolute stereochemistry.

Me
$$N_H$$
 (CH₂) 4 S CO₂H N_{H}

53 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

53 REFERENCES—IN—FILE—CAPLUS—(1967—TO—DATE)

L3 ANSWER 64 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 17465-88-2 REGISTRY

CN L-Lysine, N6,N6'-(1,6-dimino-1,6-hexanediyl)bis- (9CI) (CA INDEX NAME) OTHER CA INDEX NAMES:

CN Lysine, N6, N6'-adipimidoyldi-, L- (7CI, 8CI)

FS STEREOSEARCH

MF C18 H36 N6 O4

CI COM

LC STN Files: CA, CAOLD, CAPLUS

$$HO_2C$$
 S
 $(CH_2)_4$
 H
 NH_2
 $(CH_2)_4$
 H
 NH
 $(CH_2)_4$
 S
 CO_2H

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 65 OF 65 REGISTRY COPYRIGHT 2001 ACS

RN 13289-25-3 REGISTRY

CN Lysine, N6,N6'-adipimidoyldi- (8CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C18 H36 N6 O4

LC STN Files: CAOLD

Absolute stereochemistry.

Double bond geometry unknown.

$$^{NH2}_{HO_2C}$$
 S $^{(CH_2)}$ 4 N N

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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=> s (159190-45-1 or 150403-89-7) L4 7 (159190-45-1 OR 150403-89-7)

=> s 14 and osteoporosis

L5 1 L4 AND OSTEOPOROSIS

=> d 15

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2001 ACS

AN 1999:126826 CAPLUS

DN 130:177552

TI Remedies for diseases associated with bone resorption

IN Endo, Koichi; Kusano, Kenichiro

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Chuqai Seiyaku Kabushiki Kaisha, Japan
PΑ
     PCT Int. Appl., 19 pp.
SO
     CODEN: PIXXD2
DT
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LA
     Japanese
FAN.CNT 1
     PATENT NO.
                  KIND DATE
                                            APPLICATION NO. DATE
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     WO 9907412
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             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG,
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                            19990427
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                            19970812
     WO 1998-JP3581
                            19980812
RE.CNT 5
(1) Blandi, M; Proc Natl Acad Sci USA 1995, V92, P2954
(2) Moore, W; J Med Chem 1994, V37(23), P3886 CAPLUS
(3) Ralston, S; British Journal of Rheumatology 1997, V36(8), P831 CAPLUS
(4) Sunyer, T; Endocrinology 1997, V138(5), P2148 CAPLUS(5) Tracey, W; Can J Physiol Pharmacol 1995, V73, P665 CAPLUS
=> d his
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     FILE 'REGISTRY' ENTERED AT 10:45:24 ON 29 AUG 2001
L1
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L2
              4 S L1
L3
             65 S L1 SSS FULL
     FILE 'BIOSIS, MEDLINE, CAPLUS' ENTERED AT 10:59:45 ON 29 AUG 2001
L4
              7 S (159190-45-1 OR 150403-89-7)
L5
              1 S L4 AND OSTEOPOROSIS
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